Wither Kessearch US EPA RECORDS CENTER REGION 5





Minnesota Pollution Control Agency

PRELIMINARY ASSESSMENT **EXECUTIVE SUMMARY**

St. Paul Gas Manufacturing Site MND981528250

June 18, 1987



Program Support Section

Situation

The St. Paul Gas Manufacturing Site (Site), was located in St. Paul, Ramsey County, Minnesota. The Site was in operation from 1857 to 1959. Coal gas was produced at the Site by thermal decomposition of coal. The typical by-products of this process include aromatic and polynuclear aromatic hydrocarbons, ammonia, ferrocyanide, coal tar, coke, and heavy metal ash. Some or all of these by-products may have been dumped on-site or discharged to the Mississippi River. A letter requesting information about waste handling procedures at the Site has been sent to one of the former Site operators.

There are no municipal drinking water supply wells within a 3-mile radius of the Site. The City of St. Paul has three wells that serve approximately 5 percent of the population of St. Paul, but these wells are located roughly six miles north of the Site. The remainder of the municipal water supply is obtained from the Mississippi River several miles upstream of the Site. There may be a few private wells within a 3-mile radius of the Site, but this has not been confirmed.

The Mississippi River is located roughly 1,200 feet south of the Site, and is used for recreational purposes along the 3-mile stretch downstream of the Site.



≎ EPA		TENTIAL HAZA PRELIMINAR' 1 - BITE INFORM	Y ASSES	SMENT	τ	L IDENTIFIED STATE OF		150
II. SITE NAME AND LOCATION					~			
O I SITE NAME diagral operation, or description and	of abol			T NOUTE NO OR SE				
ST. PAUL GAS M	ANUFACT	URING SITE	OLI	VEST. BE	TWEEN	4 TAND	5ºSTR€	EIS
ST. PAUL			04 STATE	55101	COUNTY		1 23 2005	64 04
44°51′ 03″	0930	NG/TUDE 04'56"		GS ST. P/			1967 11AD · revi	2 photo
10 DIRECTIONS TO SITE (Starting from represt)	ubic read)							
TAKE 714 STREE KELLOGG ST. EAST	r (fort. R. From 7!	H, TURN LE	FT ON	BROADWA) THEN	RIGHT	ON 43	¥5m
MI. RESPONSIBLE PARTIES					 			
01 OWNER (Kensen)		 		T (Business making reso		 		
NORTHERN STATI	es Power	c Company	1 41	1 NICOL	LET N	1ALL		
03 CITA			04 STATE	OS ZIP CODE	1 .	•		
MINNEAPOLIS			IMN	5540	161213	30-5500		
OF OPERATOR If known and different from some	,	A	OB STREE) (Business making room			Λ	7
MS. D.B. PALMO	UIST ASSI	ADMINIST	RATO	R- NSP	CO. RE	GULATO	RY COM	LIANC
09 CITY	, ·		10 STATE	11 ZIP CODE	12 TELEPHO	NE NUMBER		}
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13 TYPE OF OWNERSHIP (Cruck and) A PRIVATE DB FE	DERAL			_ D C STATE	DD.COUN	TY DEMU	NICIPAL	1
D F. OTHER		(Agency name)		_ DG UNKNO				- 1
	(300							
14 OWNER/OPERATOR NOTIFICATION ON I			LED WAST	E SITE ICERCIA 103 ci	DATE RECE	IVED MONTH DA	T VEAR DE	NONE
IV. CHARACTERIZATION OF POTI	NTIAL HAZARD							
01 ON SITE INSPECTION		EPA D'B. EF	A CONTRA	CTOR D.C	STATE	D D OTHER	CONTRACTOR	
D YES DATE MONTH DAY Y	DE	LOCAL HEALTH OF				(Specify)		1
	CON	TRACTOR NAME(S)						
D A. ACTIVE DE MACTIVE	C UNKHOWN	03 YEARS OF OPE	1957	1 /959		D UNKNOW	1	
04 DESCRIPTION OF BURSTANCES POSSE	LY PREBENT, KNOW	N ORILLEGED AF	ROMAT			2(
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HEAVY METALS				, ,		EGE	IVE	同
COAL TAR					IN		ש ע ע	
OS DESCRIPTION OF POTENTIAL HAZARD TO BOOK DOWN TO WATER	OEHMOMENTAN				Du	JUN 3	a leay	ן ש
			- 7			_		l
SURFACE WA	IEK (ENV	THOMMENI)			Prog	ram	
V. PRIORITY ASSESSMENT DO	٠	110700011	06.1			Support	Section	
DI PRIORITY FOR MEMECTION (Chest one F	IENITAL	HAZARDI L	VW	of 2 Compression of Person	Canadians or	d Performs		
DA.HOH N	8. MEDIUM	C LOW		D D NONE				i

MN POLLUTION CONTROL AGENCY
OS MOENCY
100 ORGANIZATION
101 TELEPHONE MARGER

1621296-7827

06 DATE 06, 17, 87

VI. INFORMATION AVAILABLE FROM
01 CONTACT
SHEILAH M. ZIMMERER
0. PERSON RESPONSIVE FOR ABBRESIMENT

&EI	? A				RDOUS WASTE ASSESSMENT EINFORMATION	SITE	L IDENTIFICATION O1 STATE 102 SITE NUMBER MN D98152-8250	
H WASTER	TATES, QUANTITIES, AP	D CHARACTER						
O1 PHYSICAL S	TATES (CHOCA OF MAY ANDY) L. E. SLURRY R. FINES OF LIQUID E	02 WASTE QUANT	ITY AT SITE of maste quantities independents)	03 WASTE CHARACTI OFA TOXIC B CORRO C RADIOA C D PERSIS	CTIVE : G FLAMM	LE I MIGHLY V NOUS J EXPLOS NABLE IN REACTO	VE VATIBLE
	(Boocey)	NO OF DRUMS	<u> </u>		1			
III. WASTE T					~	,		
CATEGORY	BUBSTANCE N	IAME			02 UNIT OF MEASURE		-0.4.0	
(SLU)	SLUDGE		RNKN	DUDU	 	COAL TAR I		
(OLW)	OILY WASTE		 			LIGHT OIL	FRACTION	
(soy)	SOLVENTS		 			AROMATIC	HYDROCARBON	12
PSO	PESTICIDES		l					
(330)	OTHER ORGANIC C		 		 		R AROMATIC	
<u>©</u>	INORGANIC CHEMIC	ALS	1			FERROCYANII	E, AMMONIA,	NITRATES
ACD	ACIDS	 	 		 			
BAS	BASES		}		 -//			
MES	HEAVY METALS		1	<u>/</u>	1.//	l		
	OUS SUBSTANCES (See A				~~~~~~			T ON MEASURE OF
01 CATEGORY	02 SUBSTANCE N	IAME	D3 CAS N	UMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	NO SAMP	ling co	nonc	TED				./
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	CK6 (Sau Appendi for CAS Mano		1 0201011	<u> </u>	CATEGORY	A		03.046.11111066
CATEGORY		A HAME	02 CAS N	UNIDER		01 FEEDSTO	A-R NAME	OZ CAS NUMBER
FDS	COAL		}		FDS			
FDS			1		FDS			

FDS

VI. SOURCES OF INFORMATION (Can specific references o g. state that sample analysis reports ;

MPCA PASSI FILES.

MPCA RESPUNSIBLE PARTY FILES.

FOS

01 GROSS AMOUNT OF WEASURE 03 COMMENTS

CATEGORY CATEGORY

103

OLW

SOL

THRITANCE NAME

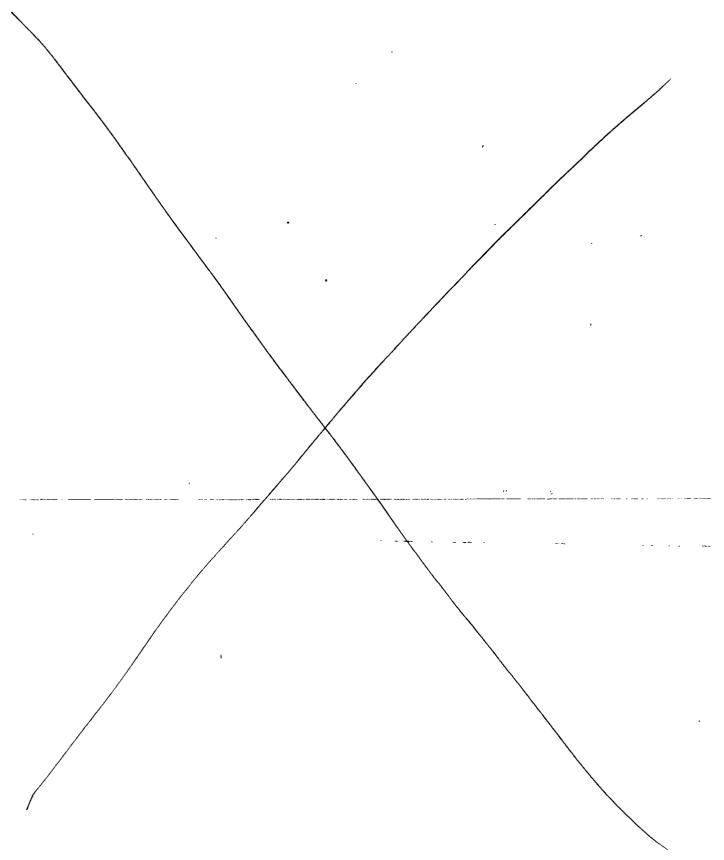
SHIRM

OILY WASTE

SOLVENTS

SOURCES

WASTE CALCULATION PAGE



REGION V FIT - PA DOCUMENTATION PACKAGE

SITE NAME ST. PAUL GAS MANUFACTURING	AKA(s)		
Compa	-		
ADDRESS OLIVE ST. BETWEEN 4TH AND 5TH	STREETS		
CITY ST. PAUL STATE MN	21P <u>55101</u>	COUNTY _R	AMSEY
USEPA IDENTIFICATION NUMBER MUD981508250	<u> </u>		
DOES THE FACILITY HAVE A RCRA PERMIT YES	NO X UNK	NOWN	
IF THE FACILITY HAS A RCRA PERMIT, DOES IT COVE PRANSPORT, AND/OR DISPOSAL ACTIVITIES AT THE FA IF NO, DESCRIBE WHAT AREAS ARE NOT COVERED	R ALL EXISTING	C AND FORMER	WASTE STORAGE UNKNOWN
POTENTIAL SOURCES (F INFORMATION		
	USED	NOT USEFUL	NOT Available
1) STATE HAZARDOUS/SOLID WASTE FILES			
2) STATE WATER FILES 3) STATE AIR FILES			
4) STATE DEPARTMENT OF HEALTH			
5) STATE GEOLOGICAL SURVEY			
6) STATE DEPARTMENT OF NATURAL RESOURCES		, ; .	
7) STATE FIRE MARSHALL			
COUNTY DEPARTMENT OF HEALTH			
) COUNTY ENGINEER			
10) COUNTY CLERK/RECORDER OF DEEDS			
11) CITY DEPARTMENT OF HEALTH 12) CITY ENGINEER			
13) CITY FIRE DEPARTMENT/FIRE MARSHALL			
14) CITY WATER/SEWER DEPARTMENT			
15) U.S. SOIL CONSERVATION SERVICE			
16) OTHERS			
FIT PRELIMINARY ASSESSMENTS FOR MN COAL	✓		
GASIFICATION SITES.			
MPCA THE PREPARER SHEILAH M. ZIMMERER MPCA		DATE 6/18	187



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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENTIFICATION

01 STATE 02 SITE MARGER

WWW D981508250

WEFA		ZARDOUS CONDITIONS AND INCIDEN	us [Wh]	981508250
IL HAZARDOUS CONDIT	TONS AND INCIDENTS (Common)			
01 Ø J DAMAGE TO FLO 04 NAMMATIVE DESCRIPT		02 D OBSERVED (DATE)	O POTENTIAL	C) ALLEGED
NONE KNO	IWN OR DOSERVED.	•		
01 DK. DAMAGE TO FAL 04 NAPPATIVE DESCRIPTI		02 OBSERVED (DATE	D POTENTIAL	C) ALLEGED
NA.				
01 BR CONTAMINATION 04 NARRATIVE DESCRIPTI	ION	02 D OBSERVED (DATE)	_	}
• •		ON OF FISH IN THE MI		ì
WASTES WERE	DUMPED IN RIVE	ER OR MIGRATED TO RI	VER VIA GR	UUND WATER ROUT
	TAMMENT OF WASTES ALLY AFFECTED UNKNOWN YNAY HAVE BEEN	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION DUMPED ON SITE.	& POTENTIAL	C ALLEGED
01 75 N DAMAGE TO OFF 04 NARRATIVE DESCRIPTI		02 OBSERVED (DATE1	DESCOTENTIAL	□ ALLEGED
POTENTIA	AL VIA GROUND U	VATER		
01 STO CONTAMINATION 04 NARRATIVE DESCRIPTI		8 02 🗆 OBSERVED (DATE)	R POTENTIAL	C ALLEGED
PROCESS	WASTES MAY HAVE	BEEN DISCHARGED T	O THE CITY	SEWER
system.				
01 D P-ILLEGAL/UNXUTH 34 NARRATIVE DESCRIPTI		02 D OBSERVED (DATE)	D POTENTIAL	T: ALLEGED
NONE KI	NOWN OR OBSERVE	ED.		
05 DESCRIPTION OF ANY	OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZAROS		
MONE KY	Jown.			
IL TOTAL POPULATION	POTENTIALLY AFFECTED:UA	KNOWN		
IV. COMMENTS				
VERY LIT	ITLE INFORMATION	ABOUT SITE OPERATION	ONS IS AVA	AILABLE.
V. BOUNCES OF INFORM	NATION (Cre specific references a g. start fine	SHIPPE PROPER PROPERTY		
MPCA PA/S	I FILES.			
MPCA RESP	ONSIBLE PARTY UN	IT I FILES.		

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

01 STATE 02 SITE NUMBER

MN D981508250

IL HAZARDOUS CONDITIONS AND INCIDENTS			
D1 St A GROUNDWATER CONTAMINATION D3 POPULATION POTENTIALLY AFFECTED LANKNOWN			T ALLEGED
PROCESS WASTES THAT MAY	HAVE BEEN DUMPED	ON THE GRO	UND AT
THE SITE MAY HAVE CONTAMIN			
01 10 B SURFACE WATER CONTAMINATION UNKNOWN	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
PROCESS WASTE MAY HAVE	BEEN DISCHARGED TO	THE MISSI	SSIPPI
RIVER, LOCATED ROUGHLY 1500 FT.	SOUTH OF THE SITE.		
01 T C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 C OBSERVED (DATE	C POTENTIAL	_ ALLEGED
NA.			
01 II D. FIRE/EXPLOSIVE CONDITIONS	02 TOBSERVED (DATE	- POTENTIAL	_ ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
NA.			
DI C E DRECT CONTACT	02 D OBSERVED (DATE1	I POTENTIAL	I ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
NA.			
01 X F CONTAMENATION OF SOIL WKNOWN	02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	* POTENTIAL	
PROCESS WASTES MAY HAVE	BEEN DUMPED ON-SI	TE, RESULT	ING IN
CONTAMINATION OF SITE SOILS	5.		
01 DG DRINKING WATER CONTAMINATION UNKNOWN	02 D OBSERVED (DATE)	POTENTUL	T ALLEGED
DRINKING WATER MAY HAVE I	BEEN CONTAMINATED	BY SUBSTAM	CES
DUMPED ON-SITE. THE SOURCE O	OF ST. PAUL'S WATER S	supply during	THE YEARS
1857-1959 IS NOT KNOWN.			
01 DH WORKER EXPOSURE/NUURY D3 WORKERS POTENTIALLY AFFECTED	02 DOSSERVED (DATE) 04 NARRATIVE DESCRIPTION	C. POTENTIAL	C ALLEGED
NA.			
01 XI POPULATION EXPOSURE THURY 03 POPULATION POTENTIALLY AFFECTED UNKNOWN	02 D OBSERVED (DATE) 04 NAMEATIVE DESCRIPTION	X POTENTIAL	D ALLEGED
POPULATION IN THE AREA M	AY HAVE BEEN EXPOSE	D TO CONTAI	MINANTS
VIA CONTAMINATED GROUND WATE	R.		

A.1 P	NDWATER CONTAMINAT MONITORING WELLS	YES	יט 🗸 טי	NKNOWN NUMBER OF	WELLS
A.2 M	YUNITORING WELLS C	ONTAMINATED	YES	ND UNKNOHN	NA _Y _
A.3 F	PRIVATE, PURLIC, A INPE(S) OF CONTAMI	ND OR COMMER NATION	CIAL WELL!	S CONTAMINATED YES	- NO MNKNOWN T
	A C (C D O () A D () C I () A D	A 1 4 40 4 5 14 5 14 5 1			
	CACKGROUND WELL AND RECORDED CON			O UNKNOWN VA POTENTIAL YES	NO
	HY? PROCESS WAS				
A . 7 G	GROUNDWATER USED F	OR DRINKING	WATER YES	5 N	
A.R D	DISTANCE TO NEARES	T WELL	FEET		
A.9 [STIMATE OF THE PO	FULATION ON	GROUNDWATE	ER IN A THREE MILE RADI	IUS OF THE SITE
A.10	TYPES OF AQUIFERS				
			,		· · · · · · · · · · · · · · · · · · ·
	TYPE	THICKNESS	DEPTH	AQUIFER OF CONCERN	CONTAMINATED
	St. Peter SS.	- 100	0'	ho	possibly
	Prairie du Chien Fm.	125'	1001	yes	unknown
		90'	225'	yes	Unknown
	Jordan S.S.				
	Ironton - Galesville S.S. DOES SITE GEOLOGY	60' PREVENT THE		NO OF CONTAMINANTS TO UN N IF YES, WHY	
A.12	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINM	PREVENT THE NO L	MIBRATION UNKNOWN ES UTILIZE	N OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV	VENT THE MIGRATION
A.12	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINM	PREVENT THE NO L ENT PROCEDUR O UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	N OF CONTAMINANTS TO UN N IF YES, WHY	VENT THE MIGRATION
A.12	Tronton - Golesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO	PREVENT THE NO L ENT PROCEDUR O UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	N OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV	VENT THE MIGRATION
A.12	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMONT OF CONTAMINANTS TO IF YES, WHY	PREVENT THE NO ENT PROCEDUR UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	N OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV	VENT THE MIGRATION
A.12	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMONT OF CONTAMINANTS TO IF YES, WHY	PREVENT THE NO ENT PROCEDUR UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	OF CONTAMINANTS TO UN N	VENT THE MIGRATION
A.12	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMONT OF CONTAMINANTS TO IF YES, WHY	PREVENT THE NO L ENT PROCEDUR O UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	OF CONTAMINANTS TO UN N	VENT THE MIGRATION
A.12 SOURC	Tronton - Golesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO SES: 2, 3, 5. CE WATER CONTAMINA	PREVENT THE NO L ENT PROCEDUR O UNDERLYING	MIBRATION UNKNOWN ES UTILIZE AQUIFERS	OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV YES NO UN	VENT THE MIGRATION NENDWN
SOURC SURFA B.1 1	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO SES:	PREVENT THE NO ENT PROCEDUR O UNDERLYING ATION FACE WATER(S AM, AN	MIBRATION UNKNOWN ES UTILIZE AQUIFERS -, ,,	OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV YES NO UN CONTINUOUSLY	VENT THE MIGRATION NENDWN
SOURC SURFA B.1 1 CP B.2 D	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO THE YES, WHY ES: 3, 3, CE WATER CONTAMINATE OF NEARBY SURFERENT OF NEARBY SURFERENT ON THE NEW OF	PREVENT THE NO ENT PROCEDUR O UNDERLYING ATION FACE WATER(S AM, AN, AND/OR AREST SURFAC	MIBRATION UNKNOWN ES UTILIZE AQUIFERS '''' D'OR RIVER SWAMP/MAR E WATER ~	OF CONTAMINANTS TO UN IF YES, WHY ED AT THE FACILITY PREV YES NO UN RSH (CONTINUOUSLY RSH	VENT THE MIGRATION WENDWN
SOURC SURFA B.1 1 C. P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO THE YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF THE NEARBY SURFICE OND THE NEARBY SURFICE SURFACE TO THE NEARBY SURFACE T	PREVENT THE NO ENT PROCEDUR O UNDERLYING ATION FACE WATER(S AM , AND/OR AREST SURFAC PAPHY PREVEN	MIBRATION UNKNOWN ES UTILIZE AQUIFERS O/OR RIVER SWAMP/MAR E WATER A T THE MIGR	R CONTINUOUSLY RSH RATION OF CONTINUOUSLY	FLOWING)
SOURC SURFA B.1 1 C. P B.2 D B.3 D	Trenton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO THE YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES, WHY ES: 2, 3, CE WATER CONTAMINATION OF YES	PREVENT THE NO ENT PROCEDUR O UNDERLYING ATION FACE WATER(S AM , AND/OR AREST SURFAC PAPHY PREVEN NO	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER A T THE MIGR IF YES,	R CONTINUOUSLY RSH VIDOO FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR	FLOWING) TO THE SURFACE VAPHY AT THE
SOURC SURFA B.1 1 C P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO IF YES, WHY ES: 3, 3, CE WATER CONTAMINATE PRESENT BETWEE BOLOGIES TIME OF GAS MFG PRESENT BETWEE	PREVENT THE NO ENT PROCEDUR UNDERLYING THE SITE OPERATION THE SITE OPERATION	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER A T THE MIGR IF YES,	R CONTINUOUSLY RSH VIDOO FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR	FLOWING) TO THE SURFACE VAPHY AT THE
SOURC SURFA B.1 1 C P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO IF YES, WHY ES: 3, 3, CE WATER CONTAMINA YPE OF NEARBY SURF REEK , STREE DND , LAKE DSTANCE TO THE NEW DES SURFACE TOPOGE ATER(S) YES TIME OF GAS MFG PRESENT BETWEE SACE OF SUFFACE NEW SACE OF SUFFACE NEW	PREVENT THE NO ENT PROCEDUR O UNDERLYING TACE WATER (S AM AND/OR AREST SURFAC PAPHY PREVEN NO OPERATION THE SITE	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER N I THE MIGR IF YES, S IS UNI E AND TH	CONTINUOUSLY RSH CLACO FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR KNOWN, BUT ROADS P	FLOWING) TO THE SURFACE ROBABLY WERE FECTIVELY BUCKING PAINAGE TO THE RIVER
SOURC SURFA B.1 1 C P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO IF YES, WHY ES: 3, 3, CE WATER CONTAMINA YPE OF NEARBY SURF REEK , STREE DND , LAKE DSTANCE TO THE NEW DES SURFACE TOPOGE ATER(S) YES TIME OF GAS MFG PRESENT BETWEE SACE OF SUFFACE NEW SACE OF SUFFACE NEW	PREVENT THE NO ENT PROCEDUR O UNDERLYING TACE WATER (S AM AND/OR AREST SURFAC PAPHY PREVEN NO OPERATION THE SITE	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER N I THE MIGR IF YES, S IS UNI E AND TH	CONTINUOUSLY RSH CLACO FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR KNOWN, BUT ROADS P	FLOWING) TO THE SURFACE RAPHY AT THE ROBABLY WERE FECTIVELY BUCKING PAINAGE TO THE RIVER WEVER. PROCESS WASTE
SOURC SURFA B.1 1 C P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO IF YES, WHY ES: 3, 3, CE WATER CONTAMINA YPE OF NEARBY SURF REEK , STREE DND , LAKE DSTANCE TO THE NEW DES SURFACE TOPOGE ATER(S) YES TIME OF GAS MFG PRESENT BETWEE SACE OF SUFFACE NEW SACE OF SUFFACE NEW	PREVENT THE NO ENT PROCEDUR O UNDERLYING TACE WATER (S AM AND/OR AREST SURFAC PAPHY PREVEN NO OPERATION THE SITE	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER N I THE MIGR IF YES, S IS UNI E AND TH	R CONTINUOUSLY RSH VIDOO FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR KNOWN BUT ROADS P	FLOWING) TO THE SURFACE RAPHY AT THE ROBABLY WERE FECTIVELY BLOCKING PAINAGE TO THE RIVER WEVER, PROCESS WASTERN HAVE BEEN DISCHA
SOURC SURFA B.1 1 C P B.2 D B.3 D	Tronton - Galesville S.S. DOES SITE GEOLOGY AQUIFERS YES DOES THE CONTAINMED OF CONTAMINANTS TO IF YES, WHY ES: 3, 3, CE WATER CONTAMINATE PRESENT BETWEE BOLOGIES TIME OF GAS MFG PRESENT BETWEE	PREVENT THE NO ENT PROCEDUR O UNDERLYING TACE WATER (S AM AND/OR AREST SURFAC PAPHY PREVEN NO OPERATION THE SITE	MIBRATION UNKNOWN ES UTILIZE AQUIFERS D/OR RIVER SWAMP/MAR E WATER N I THE MIGR IF YES, S IS UNI E AND TH	R CONTINUOUSLY RSH (CONTINUOUSLY RSH (1200 FEET RATION OF CONTAMINANTS WHY SURFACE TOPOGR KNOWN, BUT ROADS P HE MISSISSIPIT R. FEE	FLOWING) TO THE SURFACE ROBABLY WERE FECTIVELY BUCKING PAINAGE TO THE RIVER

B) SURF	TACE WATER CONTAMINATION (CONTINUED)
B.5	SURFACE WATER CONTAMINATED YES NO UNKNOWN V
B . 6	TYPE(S) OF CONTAMINATION AND DATE
0.0	
B.7	IF NO RECORDED CONTAMINATION, IS THERE A POTENTIAL YES NO
	WHY? THERE WAS PROBABLY THE POTENTIAL FOR CONTAMINATION OF THE
	Only Ar The Time of the 1815 ACTORTUS
8.8	DISTANCE TO NEAREST DRINKING WATER INTAKE WITHIN THREE MILES: MILE(S)
	ESTIMATE OF POPULATION USING SURFACE WATER, INTAKES WITHIN THREE
	MILES OF THE SITE.
B.10	D IS THERE A WILDLIFE PRESERVE (5 ACRE MINIMUM) WHICH COULD BE CONTAMINATED
5 4	YES NO V
	N ARE THERE FEDERALLY ENDANGERED SPECIES PRESENT NES NO UNYNOWN
SUMBLE	s: <u>1a</u> , <u>4</u> ,,,,,,,
SOUNCE:	° 10° ' ' ' ' ' ' '
6) 600	7.4MT.WATTON OF ATO
C / CUA	CITIZEN COMPLAINTS YES NO DATE(S) NATURE OF
C . 1	COMPLAINT - NATURE OF
	CONFLAINT
C 2	AIR PROBLEMS AS CONFIRMED BY LOCAL, STATE, AND/OR FEDERAL INVESTIGATORS
•••	YES DESCRIPTION OF EVENT AND
	HETHODOLOGY HEED
	METHODOLOGY USED
۲.3	IF NO CONFIRMED RELEASES, IS THERE A POTENTIAL YES NO IF YES,
	WHY
C.4	ESIMATE OF POPULATION WITHIN A FOUR MILE RADIUS
	NA
SOURCES	
	5:,,,,,,,,,
D) FIRE	/EXPLOSIVE CONDITIONS
D. 1	HAS A STATE AND/OR LOCAL FIRE MARSHAL CERTIFIED THAT THE SITE IS A FIRE HAZARD OR
	PRESENTS A EXPLOSION THREAT YES NO V DATE
	PRESENTS A EXPLOSION THREAT YES NO V DATE DESCRIPTION OF EVENT
D.2	INCOMPATIBLE WASTES PRESENT YES NO UNKNOWN
D. 3	IGNITABLE WASTES PRESENT YES NO UNKNOWN
D. 4	IF NO CONFIRMED THREAT, IS THERE A POTENTIAL THREAT YES NO
	UNKNOWN NATURE OF THE POTENTIAL THREAT
	The state of the s
n.s	DISTANCE TO NEAREST POPULATION FEET
	ESTIMATE OF POPULATION WITHIN TWO MILES
	DISTANCE TO NEAFEST BUILDING FEET
<i>U.1</i>	
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	m. > totimate of months personally acceptant actions of postalistic actions		L 3 ESTIMATE OF ADDICE DOE: 41704 ASSOCIATION OF DOTTALLY ASSOCIATION	
No. 201			n. 2 tolerate of monite referance and telefor on recentables Attitled	
	OURCES: 2,,,,,	Norman and 19		

M) UNSTABLE CONTAINMENT OF WASTES	
M.1 ARE WASTE STORAGE AND/OR DISPOSAL PRACTICES AT THE NO. DESCRIBE NATURE OF	
STURAGE AND DISPOSAL OF PLANT WASTES AT	
IN OPERATION MAY HAVE BEEN INADEQUATE	THE TIME THE FLANT WAS
H.2 IF YES OR UNKNOWN TO M.1, DESCRIBE ANY POTENTIAL	PROBLEM(S)
SEE M.I (ABOVE).	
SEE ALL PREVIOUS SECTIONS, USE MAXIMUM POPULATION THAT	IS NOT DOUBLE COUNTED
SOURCES: 2, 4,,,	
SUURCES:	_
N) DAMAGE TO OFFSITE PROPERTY	
N. 1 HAVE OFFSLIE PROPERTIES BEEN DAMAGED BY SITE ACT	IVITES YES NO
UNKNOWN _ / IF YES, GIVE DATE(S) AND DESCRIBE	EVENT(S)
POSSIBLY VIA GROUND WATER CONTAMINATION	
SEE ALL PREVIOUS SECTIONS	
NA	
SOURCES: _NA,,,,,,	_
D) CONTANTNATION OF SEMERS STORM DRAINS WHIPE	
O) CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs O.1 DOCUMENTED DAMAGE TO INFRASTRUCTURE YES NO	O JUNKNOWN IF YES.
GIVE DATE(S) AND DESCRIBE EVENT(S)	
0.2 IF NO OR UNKNOWN TO 0.1, DESCRIBE ANY POTENTIAL	
THE PLANT MAY HAVE CONTAMINATED SEWERS	S OR STORM DRAINS BUT
THE LOCATION OF THESE STRUCTURES AT THE T	IME THE PLANT WAS ACTIVE
SOURCES: NA,,,,,	TS WUKNOWN.
JOURCES:	_
the first the second se	
P) ILLEGAL/UNAUTHORIZED DUMPING	
P.1 HAVE THERE BEEN EPISODES OF ILLEGAL, UNAUTHORIZE	D. AND/OR MIDNIGHT DUMPING AT THE
	YES, GIVE DATE(S) AND DESCRIBE
EVENT(S)	its, dive unit(3) and describe
£1£41(3)	
P. 2 HAS THE FACILITY RECEIVED HAZARDOUS WASTES WITHOU	UT A PROPER LOCAL, STATE, AND/OR
FEDERAL PERMITS WHEN SUCH PERMITS WOULD HAVE NOR	·
NO UNKNOWN IF YES, GIVE DATE(S) AN	D DESCRIBE EVENT(S)
P.3 WOULD SITE SITE SECURITY PROMOTE UNAUTHORIZED DU	
UNENOWN IF POSSIBLE, DESCRIBE	
NA	
SOURCES:	

1) POPULATION EXPOSURE/INJURY
1.1 DO SITE CONDITIONS THREATEN NEARBY POPULATION YES NO WINKNOWN IF YES, DESCRIBE (INCLUDE DATES OF EXPOSURE)
Tr TES, DESCRIBE (INCLUDE DATES OF EXPOSURE)
1.2 AS A RESULT OF RECREATIONAL ACTIVITIES, IS POPULATION EXPOSURE/INJURY POSSIBLE YES NO UNKNOWN IF YES, DESCRIBE
1.3 POPULATION AFFECTED OR POTENTIALLY AFFECTED - SAME AS TOTAL POPULATION EXPOSED
SOURCES: 10, 6,,,
J) DAMAGE TO FLORA
J.1 OBSERVED OCCURRENCES OF DAMAGE YES NO UNKNOWN IF YES, DATE AND EXTENT OF DAMAGE - POSSIBLE DAMAGE TO FLORA IN THE PAST.
J.2 IF NO OR UNKNOWN IN J.1, IS THERE A POTENTIAL FOR SUCH AN OCCURRENCE YES
NO V UNKNOWN IF YES, DESCRIBE POTENTIAL
(NOT AT THE PRESENT TIME)
SOURCES: 6,,,,
K) DAMAGE TO FAUNA K.1 OBSERVED OCCURRENCES OF DAMAGE YES NO UNKNOWN IF YES, DATE AND EXTENT OF DAMAGE
K.2 IF NO DB UNKNOW TO K. 1, IS THERE A POTENTIAL FOR SUCH AN OCCURRENCE YES
NO UNKNOWN IF YES, DESCRIBE POTENTIAL
SOURCES: NA,,,,,,,,,,,,
L) CONTAMINATION OF FOOD CHAIN
L.1 HAVE GRAIN CROPS BEEN IMPACTED YES NO UNKNOWN NO UNKNOWN NO
UNKNOWNL.3 IF YES TO L.1 AND/OR L.2, DESCRIBE IMPACT AND GIVE DATE
L.4 IF NO TO L.1 AND OR L.2, IS THERE A POTENTIAL YES NO V UNKNOWN
. (A.
SOURCES: NA,,,,,

RECOMMENDED ACTIONS SEND A LETTER TO NORTHERN
STATES POWER COMPANY (NSP), THE SITE OWNER SINCE 1925. INCLUDE
QUESTIONS REGARDING OA HISTORY OF SITE OWNERSHIP, @ SITE LOCA-
TION (ADDRESS GIVEN BY NSP NO LONGER EXISTS; STREETS HAVE BEEN
MODIFIED), @ HISTORY OF PLANT OPERATIONS, @ VOLUME OF GAS PRODUCED
& SOLD ANNUALLY, @ WASTE TYPES AND VOLUMES PRODUCED, @ METHODS)
LOCATION(S) OF WASTE DISPOSAL (IF WASTES WERE DISPOSED OF ON-SITE,
SHOW THE LOCATION(S) WHERE DUMPING OCCURRED AND PROVIDE AN
ESTIMATE OF THE SIZE OF THE AREA(S) IMPACTED.), A SITE MAP, SHOWING
LOCATIONS) OF PLANT STRUCTURES SUCH AS RETORTS, STORAGE TANKS,
AT THIS TIME, THERE IS
COMMENTS NERY LITTLE ACTUAL INFORMATION REGARDING SITE OPERATIONS
AND THE POTENTIAL HAZARD THE SITE MAY HAVE POSED TO THE
ENTRONMENT AND THE PUBLIC HEALTH.
·

PA DOCUMENTATI	ON SHEET ST. PAUL GAS MFG. SITE IDENTIFICATION NUMBER MND981520250
SOURCE NUMBER	DESCRIPTION OF SOURCE
KA, 18, 10, 10	1A) QUAD NAME ST. PAULEAST SIZE: (1.5) OF 15 YEAR 1967 (photorevised 1972) 1C) QUAD NAME SIZE: 7.5 OF 15 YEAR SIZE: 7.5 OF 15 YEAR YEAR YEAR
a	MPCA SOLID AND HAZARDOUS WASTE DIVISION, SITE RESPONSE
·	SECTION FILES - GENERAL CORRESPONDENCE FOR
	FARIBAULT COAL GAS SITE 1981, 1983, 1985/86.
3	PHONE CALL TO TOM MOGREN, WATER UTILITIES GEN'L
	MANAGER FOR THE CITY OF ST. PAUL (6/2/298-4012).
4	FIT PRELIMINARY ASSESSMENTS FOR THE FOLLOWING MN
	COAL GAS SITES; HIBBING, MANKATO, OWATONNA, ALBERT
	LEA, AUSTIN, BRAINERD, WINONA, VIRGINIA, STILLWATER I &II,
	ST. CLOUD, ROCHESTER, RED WING. SITE RESPONSE SECTION
	PASI FILES,
5	"WATER RESOURCES OUTLOOK FOR THE MINNEAPOLIS-ST.
	PAUL METROPOLITAN AREA"; 1973; USGS IN COOPERATION
	WITH THE METROPOLITAN COUNCIL OF THE TWIN CITIES
	AREA"
6	VISUAL RECONNAISSANCE OF CURRENT SITE CONDITIONS (1987)
•	



Minnesota Pollution Control Agency

PRELIMINARY ASSESSMENT EXECUTIVE SUMMARY

St. Paul Gas Manufacturing Site MND981528250

June 18, 1987

Situation

II

The St. Paul Gas Manufacturing Site (Site), was located in St. Paul, Ramsey County, Minnesota. The Site was in operation from 1857 to 1959. Coal gas was produced at the Site by thermal decomposition of coal. The typical by-products of this process include aromatic and polynuclear aromatic hydrocarbons, ammonia, ferrocyanide, coal tar, coke, and heavy metal ash. Some or all of these by-products may have been dumped on-site or discharged to the Mississippi River. A letter requesting information about waste handling procedures at the Site has been sent to one of the former Site operators.

There are no municipal drinking water supply wells within a 3-mile radius of the Site. The City of St. Paul has three wells that serve approximately 5 percent of the population of St. Paul, but these wells are located roughly six miles north of the Site. The remainder of the municipal water supply is obtained from the Mississippi River several miles upstream of the Site. There may be a few private wells within a 3-mile radius of the Site, but this has not been confirmed.

The Mississippi River is located roughly 1,200 feet south of the Site, and is used for recreational purposes along the 3-mile stretch downstream of the Site.



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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION DI BIATE DE SITE NUMBER

OLIA	PART 1 - BITE INFORM	ATION AND ASSESSMENT	LMD1D981528350
N. SITE NAME AND LOCATION			
D1 SITE NAME Augus common or description name or de		02 STREET ROUTE NO DR SPECIFIC LO	CATION DENTIFER
ST. PAUL GAS MAN	UFACTURING SITE	E OLIVE ST. BETWEE	EN 4TH AND 5TH STREETS!
ST. PAUL		1 ,1	123 04
44°57' 03"	093°04'56"		EAST 7.5 QUAD: 1967 (Photo
10 DIRECTIONS TO SITE /Surring from reserve! sweets re-	<u> </u>	10000 01 17100	2101 1.5 WWAD; 1972)
TAKE 714 STREET (F KELLOGG ST. EAST FR	ORT. RD.) INTO OM 7世, TURN CC	ST. PAUL FROM THE CFT ON BROADWAY, TH	E SOUTHWEST, TAKE HEN RIGHT ON 4 TH ST.
HI RESPONSIBLE PARTIES			
NORTHERN STATES	POWER COMPANY	02 STREET (BARROLL MARCHET) 104 STATE OS 219 CODE 106 TEL	MALL
03 CITY		04 STATE 05 ZIP CODE 06 TEL	
MINNEAPOLIS		MN 55401 1613	2 330-5500
07 OPENATOR If known and different from owner;		DO STREET (Business making resource).	\$
MS. D.B. PALMOUIS	IT. ASST. ADMINIST	MATOR - NSP CO.	REGULATORY COMPLIANCE
09 CITY	7	10 STATE 11 ZIP CODE 12 TEL	EPHONE NUMBER
13 TYPE OF OWNERSHIP (Check one)			
A PRIVATE DB FEDERA	(Agency name)	D C STATE DD C	COUNTY DE MUNICIPAL
D F OTHER	(Spec4)	D G UNKNOWN	r
14 OWNER/OPERATOR NOTIFICATION ON FILE IC A RCRA 3001 DATE RECEIVED HON IV. CHARACTERIZATION OF POTENTIA	TH DAY YEAR D B UNCONTRO	ALED WASTE SITE ICERCLA 103 CI DATE	RECEIVED MONTH DAY YEAR OLD NONE
01 ON SITE INSPECTION	BY (Check of that apply)		
THE DATE MONTH DAY YEAR	D A EPA D B E	PA CONTRACTOR D C STATE	D D OTHER CONTRACTOR
□ NO MONTH DAY YEAR	DE LOCAL HEALTH OF	FICIAL DE OTHER	(Sectify)
	CONTRACTOR NAME(S)		
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POLY NUCLEAR A ROM	IATIC HYDROCARI	BONS CYANIDE	
HEAVY METALS		7,1,20	
COAL TAR			į
05 DESCRIPTION OF POTENTIAL HAZARD TO EN	TOPMENT MOTOR PO' ULATION		
GROWDWATER	(ENVIRONMENT)		1
	R (ENVIRONMENT		\
Salar Fice Control	(3/2 / 2 / / / /	,	ļ.
	NTIAL HAZARD: L	-0W	
O1 PROPETLY FOR IMPRECTION (Creat and If age of the A HIGH Created presently)	EDUM C LOW	Information and Part 3 Description of Pharanesina Counting D NONE This Anthon college code	and analysis ourses disposition form)
VL INFORMATION AVAILABLE FROM			
OI CONTACT .	D2 OF IAPPROVO	supplied to	03 TELEPHONE NUMBER
SHEILAH M. ZIMMER	RER MILL DA	OLLUTION CONTROL	AGENCY 16121296-7827
O' PERSON RESPONSIBLE FOR ABBESOMENT	05 AGENCY		ELEPHONE NUMBER DE DATE
SAME		-	# # # # # # # # # # # # # # # # # # #

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II. WASTE ST	ATES, QUANTITIES, A	D CHARACTE	RISTICS					
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II. WASTE TY	YPE		-					
CATEGORY	SUBSTANCE I	AME			02 UNIT OF MEASURE			
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(OLW)	OILY WASTE	<u>-</u> _				LIGHT OIL		
(sou)	SOLVENTS					AROMATIC H	YDROCARBON)5
PSD	PESTICIDES	 						
(OCC)	OTHER ORGANIC C	HEMICALS				POLYNUCLEAR	R AROMATIC	HYDROCARB
(PGC)	MORGANIC CHEMIC	CALS				FERROCYANIA	E AMMONIA	NITRATES
ACD	ACIDS						<u> </u>	
BAS	BASES							
MES	HEAVY METALS		<u> </u>	<u> </u>				
	DUS SUBSTANCES (See A		mily ched CAS No	mbe/1)	·			T an age of the or
1 CATEGORY	02 SUBSTANCE	IAME	03 CAS N	UMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	V							
					//			
V. FEEDSTO	CKS (See Appendix for CAS from	bers:			<u> </u>			· '
			DZ CAS	NUMBER	CATEGORY	D1 FEEDSTO	CK NAME	02 CAS NUMBER
CATEGORY			+		FDS			
	1 1 1 1				 			
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SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I DENTIFICATION ON STATE OF SITE MANGER
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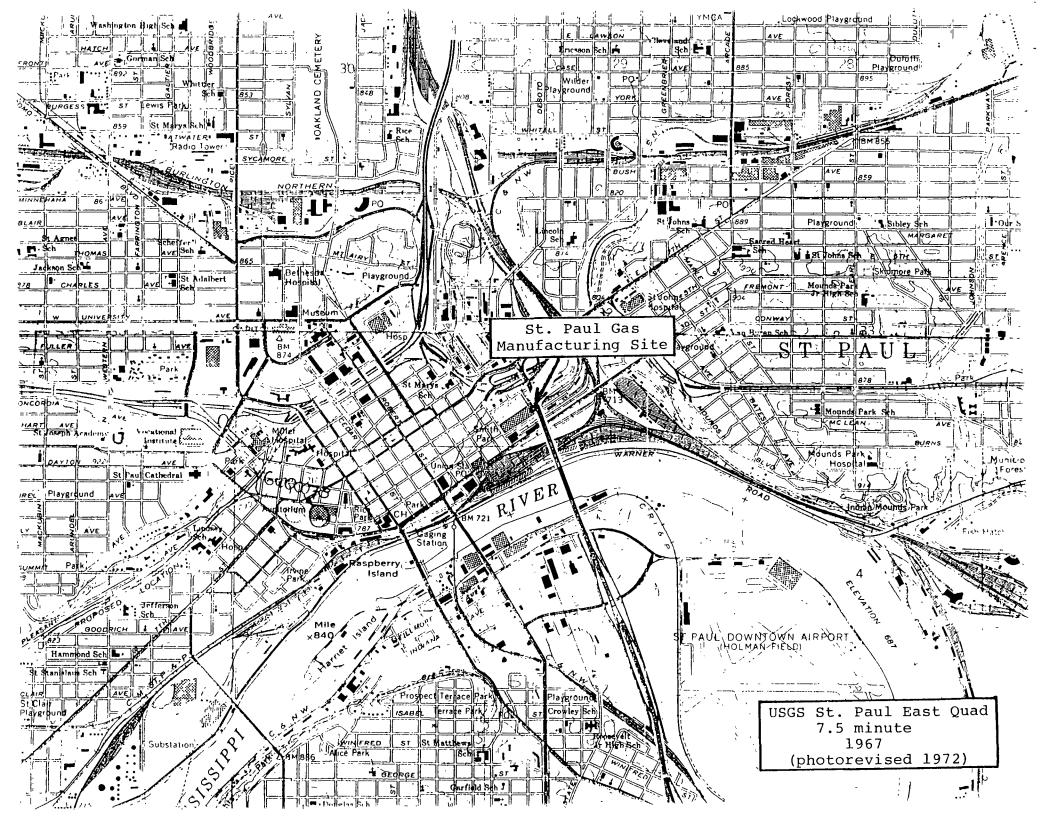
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SFPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENTIFICATION OI STATE OF SITE HAMBER

PART 3 - DESCRIPTION OF	HAZARDOUS CONDITIONS AND INC	IDENTS LITTINITY	10100 FLACE
HAZARDOUS CONDITIONS AND INCIDENTS (Comment)			
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VERY LITTLE INFORMATION	ABOUT SITE OPERI	ATIONS IS AVA	TILABLE.
V. SOURCES OF INFORMATION (Circ associal references + g. mare	Mass auriche entitysis reports)		
MPCA PA/SI FILES. MPCA RESPONSIBLE PARTY U	INIT IT FILES.		



JUN 03 1994



Minnesota Pollution Control Agency

PRELIMINARY ASSESSMENT EXECUTIVE SUMMARY

St. Paul Gas Manufacturing Site MND981528250

June 18, 1987

Situation

1

The St. Paul Gas Manufacturing Site (Site), was located in St. Paul, Ramsey County, Minnesota. The Site was in operation from 1857 to 1959. Coal gas was produced at the Site by thermal decomposition of coal. The typical by-products of this process include aromatic and polynuclear aromatic hydrocarbons, ammonia, ferrocyanide, coal tar, coke, and heavy metal ash. Some or all of these by-products may have been dumped on-site or discharged to the Mississippi River. A letter requesting information about waste handling procedures at the Site has been sent to one of the former Site operators.

There are no municipal drinking water supply wells within a 3-mile radius of the Site. The City of St. Paul has three wells that serve approximately 5 percent of the population of St. Paul, but these wells are located roughly six miles north of the Site. The remainder of the municipal water supply is obtained from the Mississippi River several miles upstream of the Site. There may be a few private wells within a 3-mile radius of the Site, but this has not been confirmed.

The Mississippi River is located roughly 1,200 feet south of the Site, and is used for recreational purposes along the 3-mile stretch downstream of the Site.

Preliminary and potential Hazard Ranking System (HRS) scores have been calculated for the Site. The preliminary HRS score, based on presently available information and/or on estimates made by Minnesota Pollution Control Agency (MPCA) staff, is 3.75. The potential HRS score, which the Site would receive only if releases of hazardous substances from the Site to ground water and surface water were documented, is 6.39.

Inspection Priority Recommendation

The MPCA staff have conducted a Preliminary Assessment for the Site. As a result, the Agency staff believe that the Site represents a <u>low potential</u> hazard to the environment because there is no documentation of ground water contamination, and the possibility of affecting a drinking water well is very low. The MPCA staff hereby recommend that the Site be assigned a <u>medium</u> priority for inspection because there may have been hazardous wastes on-site, and these wastes may have contaminated ground water and/or surface water in the area.

520 Lafayette Road, St. Paul, Minnesota 55155
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The Spills Unit of the MPCA's Water Quality Division previously responded to at least one spill in the area of the CNW Railroad Yard in question.

The St. Paul Gas Manufacturing Site and the Burlington Northern John Street Dump appear to be in the Study Corridor Area - Segments D and E.

Thus, there is a strong potential for contamination being found in the Study Corridor Area in question given the available information.

Our file search has revealed that the following Sites are either on the properties in question or are within a one-mile radius of the referenced property:

- Metals Reduction (H.S. Kaplan) 141 Water Street, St. Paul, Minnesota 1. 55107 (2,3)
- 2. 43 East Water Street, St. Paul, Minnesota 55107 (3)
- Northwestern Shot and Lead, 108 Fairfield Avenue, St. Paul, Minnesota 3. 55107 (2)
- 4. Pier Foundry and Pattern Shop, Inc., 51 State and Water Streets, St. Paul, Minnesota 55107 (2)
- 5. Remackel Salvage Site, N., SEL, NEL, Sec.5, T28N, R22W, St. Paul, Minnesota 55107 (2)
- 6. Abex Corporation Railroad Production Group, 626 Armstrong Avenue, St. Paul, Minnesota 55102 (2) /--
- Industrial Steel Container Corporation, 184 Eagle Street, St. Paul, Minnesota 55106 (2)
- Skyway Quick Print, 315 B Skyway Building at 55 East 5th Street, St. Paul, Minnesota 55101 (2)
- St. Paul Gas Manufacturing Site, Olive Street and 4th Street, St. Paul, Minnesota 55101 (2)
- 10. Poor Richards, Inc., 400 Whitall Street, St. Paul, Minnesota (4,5)
- Buckbee Mears Operation, 245 East Sixth Street, St. Paul, Minnesota (6)
- 12) Burlington Northern, John Street Dump (7)
- J.C. White Demo also possible ash from American Hoist (7)
- 14. Lillydale Marina Demo (7)
- 15. Kamish Demo Site (7)

We also suggest that you contact Ramsey County regarding the location of pipelines, underground storage tanks, and possible spills of petroleum products and/or hazardous substances which may have occurred in the area.

This letter does not constitute an assurance on the part of the MPCA or the State of Minnesota that the property in question is free of any hazardous substances, pollutants, contaminants, or other conditions which may adversely affect the public health, welfare or the environment.